

January  
2005

# Rebuild Michigan



## PARTNER NEWS

### COMMUNITY PARTNERSHIPS

Rebuild Michigan, part of the U.S. Dept. of Energy's Rebuild America program, is designed to foster partnerships, which will promote increased energy efficiency and renewable energy use within communities. The program focuses on community-based energy planning to insure that local needs are met and that a sustained local effort is established.

Community partnerships develop comprehensive energy use strategies and organize a coalition to work towards fulfilling community energy goals. The partnerships identify energy efficiency opportunities in commercial, institutional, and multi-family buildings and encourage installation of improvements that will yield the highest energy and cost savings.

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Rebuild Delta County: New projects are being developed with the City of Gladstone, Bay College, Rapid River Schools, as well as area hotels and motels. Additional projects are also in line to be funded, representing more than \$150,000 of investment in energy efficiency upgrades. Rebuild Delta County is changing its name to Rebuild Upper Michigan to accurately reflect the recent expansion of the program. They received national recognition in Rebuild America's EnergySmart Update (November/December Issue) for an energy project with Delta County.

MSU has recently focused on community awareness activities and program accomplishments by posting project information and their "EnergyStar Back to School Shopping List" on the MSU University Committee for a Sustainable Campus website ([www.ecofoot.msu.edu](http://www.ecofoot.msu.edu)). The September/October issue of EnergySmart Update showcased MSU in an article entitled, "Faculty Help to Save Energy at MSU." They have also developed three articles spotlighting project results with the aim of being published in national facility management and university facility oriented publications.

Traverse City Light and Power made a presentation on the Rebuild Traverse City Program at the State

of Michigan Alternative Energy Technologies Conference in October 2004. The State Office building has completed a comprehensive lighting retrofit with a capital cost of \$13,000. Measured results from this retrofit and for new cooling system operational practices resulted in a 37% energy reduction. TCLP plans to report energy retrofit results on the Rebuild America website this quarter to showcase partner facilities recent accomplishments.

Washtenaw County has continued to work towards energy efficiency and awareness within their organization by posting retro-fit project updates on their employee website, and has hired Andrew Smith as their new energy coordinator.

GLREA has focused on incorporating new partners into the program. The association is marketing to schools from Holt, Dimondale, DeWitt, and Waverly. It has also recruited Michigan Interfaith Power and Light, Shepard Advisors, and Urban Options for the coalition. GLREA contracted Urban Options to perform two technical energy audits at Otto Middle School and Woodcreek Elementary and also received funding to continue energy education at 5 Rebuild MI schools. The next quarter they plan to publicize financing options on the GLREA and Rebuild websites.

## REBUILD MICHIGAN PARTNERS UPDATE

During the past quarter Rebuild Michigan (RM) has enrolled eight new partners. The table to the right lists each new partner, the square footage they have committed to energy improvements, and potential energy savings. Also, the Rebuild MI team completed Introductory Energy Evaluations for 11 clients, which identified the areas where energy use can be reduced and if a technical energy analysis (TEA) is recommended.

Since September 2003, 83 school districts, local governments, and public housing authorities have become part of the RM program. Enrolled partners have pledged a total of 23,444,370 square feet to energy efficiency projects, with estimated annual cost savings of \$3,998,091 and estimated investment of \$28,441,389. A TEA report was approved for Portage Public Schools and a \$10,200 incentive was paid to the district. Rebuild MI also approved three TEA reports for Brighton Area Schools; the district will apply for the TEA financial incentive, which will provide funding for up to 50% of the TEA expense per building with a maximum of three buildings per client.

\* These numbers were calculated on the Rebuild America website and may not reflect the actual annual energy savings available.

Name	Square Feet	*Potential Annual Energy Savings (MMBTU)
South Lake Area Schools	423,289	8,466
Marshall Public Schools	531,267	10625
Brighton Area Schools	931,798	18636
Memphis Community Schools	175,713	3514
Comstock Park Public Schools	442,385	8848
Sawyer International Airport	72,321	2893
Marysville Public Schools	407,933	8159
Marquette Housing Commission	263,207	10528
<b>Totals</b>	<b>3,247,913</b>	<b>71,669</b>

## REBUILD MICHIGAN GOALS AND OBJECTIVES FOR 2005

2004 was a productive year for Rebuild Michigan! Technical Energy Analysis reports increased by 33% compared to 2003 and implementation projects increased 350%. Two technical workshops were held in April and in August. Both focused on advanced high performance building designs and strategies for school and local government facilities. Energy Star benchmarking increased to include 15 school districts and Energy Star building labels were awarded to Belding Area School District and Grandville Public Schools for their achievements in energy efficiency.

In 2005 Rebuild MI plans to enroll 60 new partners and complete 56 Introductory Energy Evaluations. We also plan to approve 24 Technical Energy Analyses and confirm implementation results from 20 energy efficiency projects. Rebuild MI's marketing strategy will focus more attention on public housing authorities and universities in addition to schools and local governments. We are also expanding Energy Star benchmarking to include all eligible buildings evaluated during an Introductory Energy Evaluation. EnergySmart Schools promotion and support will continue this year; Rebuild MI is looking for 4 new districts to implement energy education curriculum into their classrooms. We hope to strengthen our partnership with the National Association of Housing and Redevelopment Officials (NAHRO) by participating in their upcoming public housing commission conference in April and RM will host another technical workshop in August. To learn how to become part of Rebuild MI and to take advantage of our new services please contact Tim Shireman at (517) 241-6281 or tashire@michigan.gov

## REBUILD MICHIGAN WORKSHOP ANNOUNCEMENTS

### Rebuild Michigan Technical Energy Analysis Consultants Workshop

On January 13th, 2005 Rebuild MI hosted a workshop at the Michigan Historical Library for technical energy consultants interested in becoming business partners. The workshop presented updated program guidelines and objectives and offered advanced training on sub-metering and/or the new MI commercial energy code (ASHRAE Standard 90.1-1999).

Approximately 82 people attended the TEA consultants workshop and rated its overall usefulness as 4.04 on a scale of 1-5 where 5 was an "excellent". Many of the attendees indicated that this workshop was well organized, interesting, and motivational. One consultant wrote, "this workshop was time well spent and reminded me of ways to promote Rebuild MI to my clients". Rebuild MI hosts this workshop annually to make sure consultants have the most up to date program information and TEA guidelines to assist program participants in identifying consulting firms that have been pre-qualified to offer services.

Rebuild MI plans to host two more technical workshops this year; one in April will be developed in conjunction with the National Association for Housing and Redevelopment Officials (NAHRO) for public housing authorities and the other is scheduled for August. We invite those interested to call or e-mail the Energy Office with topic ideas and suggestions for these workshops. Look for more information in the next issue.

To access presentations from past workshops please go to [www.michigan.gov/energyoffice](http://www.michigan.gov/energyoffice) and click on "workshops" under the menu bar.

### ► FEATURED PUBLICATIONS ◀

#### **The Costs and Financial Benefits of Green Buildings**

This study represents the most definitive cost benefit analysis of green buildings ever conducted. It demonstrates conclusively that a sustainable building is a cost-effective investment, and its findings should encourage communities across the country to "build green." This study was prepared by the State of California Sustainable Buildings Task Force, 134 pages.

#### **Center of Excellence for Sustainable Development**

Sustainable development is a strategy by which communities seek economic development approaches that also benefit the local environment and quality of life. This leading website provides valuable resources on a variety sustainable development issues, including community energy awareness, codes & ordinances, and public involvement.  
Website only  
[www.sustainable.doe.gov](http://www.sustainable.doe.gov)

#### **EnergyPlus Software**

EnergyPlus is an energy simulation program for modeling building heating, cooling, lighting, ventilating, and other energy flows. It includes many innovative simulation capabilities such as modular system and plant integrated with heat-balanced zone simulation, multi-zone air flow, and photovoltaic systems. This is website only and can be accessed at:  
[www.eere.energy.gov/buildings/energyplus/](http://www.eere.energy.gov/buildings/energyplus/)

Publications are available in the Rebuild America Solution Center at [www.rebuild.org](http://www.rebuild.org).

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## ENERGY EVENTS

**DTE Energy Conference  
and Expo**  
**February 15, 2005**  
Laurel Manor  
Livonia, MI

For more information go to:  
[www.mydteenergy.com](http://www.mydteenergy.com)

**ASHRAE Professional  
Energy Code Seminar:**  
**Standard 90.1-2001**  
**February 16, 2005**  
Lawrence Technological  
University, Lear Auditorium  
Contact: Tequisha  
Crockett at 248-336-2199 or  
[tquishac@thermalnetics.com](mailto:tquishac@thermalnetics.com)

**Green Roof Design and  
Construction:**  
**The State of the Art**  
**March 1, 2005**  
Troy, Michigan  
Contact:  
[http://www.roofmeadow.com/  
seminar05.htm](http://www.roofmeadow.com/seminar05.htm)

**Pierce Cedar Creek  
Institute's**  
**Third Annual Renewable  
Energy Conference**  
**March 19, 2005**  
**8:30-4:00pm**  
Hastings, MI  
(269) 721-4190  
[www.cedarcreekinstitute.org](http://www.cedarcreekinstitute.org)

**Intermediate Wind Energy  
Seminar**  
**March 26, 2005**  
**9:00-4:00pm**  
Great Lakes Renewable  
Energy Association  
Contact: Brendan Shauffler  
(800) 434- 9788  
[www.glrea.org](http://www.glrea.org)

**Introductory Renewable  
Energy Seminars**  
**April 19, 2005**  
**9:00- 5:00pm**  
Great Lakes Renewable  
Energy Association  
Contact: Brendan Shauffler  
(800) 434- 9788  
[www.glrea.org](http://www.glrea.org)